RCF Status

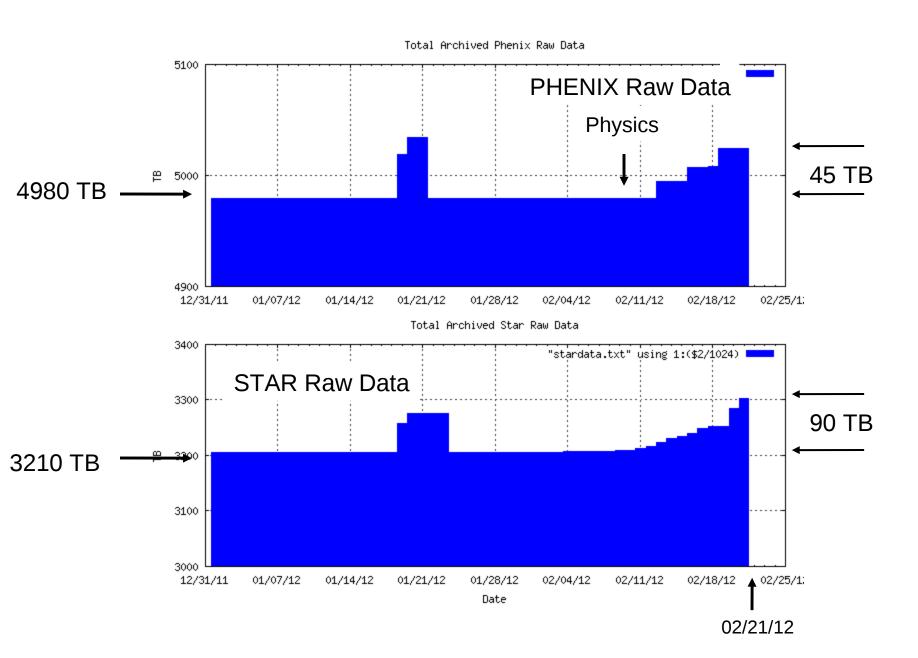
- RCF upgrades in December 2011 in preparation of Run12
 - Added 20 LTO-5 Tape Drives (~100 MB/s per Drive/1.5TB per cartridge) to existing tape libraries
 - Wanted to double STAR CH/RCF network B/W (10 => 20 Gbps)
 - During Run11 link utilization reached >90% at times
 - Existing Fiber Infrastructure indicated more than needed Fibers in the ground
 - A lot of effort was spent by ITD Networking during Summer & Fall to make these fibers work
 - In the end all existing fibers had to be declared useless
 - RCF/ITD/Facility Management in the process of setting up a project to pull new Fibers to PHENIX and STAR CHs (72 fibers each)
 - Target date for completion: ~September 2012
 - HPSS cache size and b/w upgraded to 50TB/600 MB/s sustained
 - Improves RCF's ability to buffer peak rates >1GB/s from CH
 - Upgraded HPSS Mass Storage System Software
 - Previous version stable but no longer supported, new features
 - Managing an inventory of 110 million files

Mock Data Challenge (MDC)

- Ran MDC in mid January
 - Simultaneous Transfers from PHENIX and STAR CHs, both sending data at max rate

STAR PHENIX fm0515-801 - Traffic - Port-channel 6 fm0515-802 - Traffic - Port-channel 6 8.0 G bits per second second 10 G 6.0 G per 4.0 G 5 G bits 2.0 G 0.0 Wed 12:00 Thu 00:00 Thu 12:00 Wed 12:00 Thu 00:00 Thu 12:00 From 2012/01/18 08:21:00 To 2012/01/19 18:21:00 From 2012/01/18 08:21:00 To 2012/01/19 18:21:00 Current: 443.50 M Average: 303.26 M 465.04 M 2.88 G Inbound Current: 1.34 G Average: Maximum: Current: 10.80 M Average: 12.30 G Maximum: Outbound Current: 551.36 M Ave rage: 8.26 G 5.30 G Maximum: Graph Last Updated:Tue 21 Feb 10:22:04 EST 2012

Raw Data Volume collected & archived

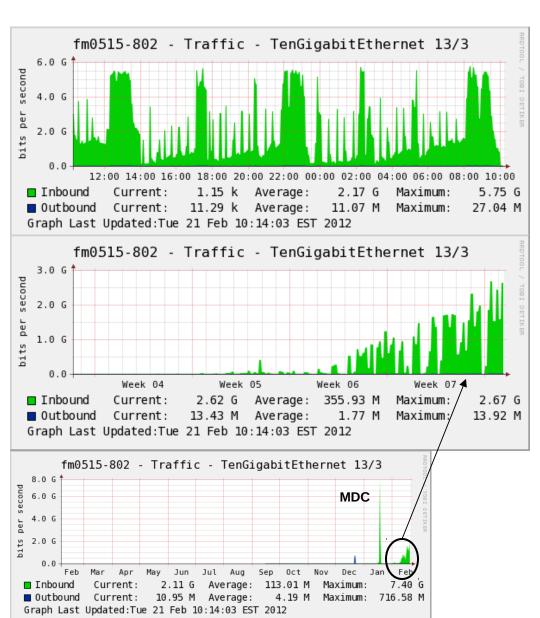


Transfer Rate STAR CH => RCF

Last 24 hours

Since start of Run12

MDC vs. Data Taking



Transfer Rate PHENIX CH => RCF

